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APPLICATION 1	NO. I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/831,555		08/14/2001	Balbir Kumar	540-311	5779
23117	7590	05/21/2003			
		RHYE, PC	EXAMINER		
8TH FLC		_	WIMER, MICHAEL C		
ARLINGTON, VA 22201-4714				ART UNIT	PAPER NUMBER
				2821	

DATE MAILED: 05/21/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

,	•	Application No.	Applicant(s)				
	•	09/831,555	KUMAR, BALBIR				
	Office Action Summary	Examiner	Art Unit				
	₹	Michael C. Wimer	2821				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - External control	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a ly within the statutory minimum of thi will apply and will expire SIX (6) MO e, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on 03	<u>March 2003</u> .					
2a)⊠	This action is FINAL . 2b) The	nis action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠	Claim(s) <u>1-6,9-23,25 and 27</u> is/are pending in	the application.					
· ·	4a) Of the above claim(s) is/are withdra	• •					
l	Claim(s) <u>9-12</u> is/are allowed.						
i	Claim(s) <u>1-6,13-23,25 and 27</u> is/are rejected.						
	Claim(s) is/are objected to.						
l	Claim(s) are subject to restriction and/o	or election requirement					
Application Papers							
9) 🗌 🤈	The specification is objected to by the Examine	er.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority u	ınder 35 U.S.C. §§ 119 and 120						
13)	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a)[☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority document	s have been received.					
	2. Certified copies of the priority document	s have been received in A	Application No				
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) 🗌 A	cknowledgment is made of a claim for domest	ic priority under 35 U.S.C.	§ 119(e) (to a provisional application).				
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment	(s)						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) 9	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)				
J.S. Patent and Tr PTO-326 (Re		ction Summary	Part of Paper No. 12				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-8,15-19,22 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Tang et al (4588994).

Regarding Claims 1-8,15,16,22 and 23 Tang et al show a device 80 for controlling the direction of a radiation beam, the device comprises, a transmission means 12,30 for transmitting the beam from the source 84,89, and a steering means 46,48,88,etc., for steering the beam, spatially relative to the central axis as shown at 90 and 92 in Fig. 6, where each "cell" is shown phase shifted to collectively add to the entire beam being shifted; the transmission means comprises a body of magnetic material 12 having a central axis forming an aperture therethrough for passing the beam and parallel to the radiation beam, where the steering means causes the radiation beam to emerge from the transmission means offset relative to the central axis in free space in a known direction (Fig. 6, 90,92), all arranged as claimed. The magnetic means applies a gradient in magnetism across the aperture and it is not perpendicular to the central axis (Fig. 6). The frequency bands claimed are taught by Tang et al.

Claim Rejections - 35 USC § 103

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3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 13,14,20,21,25 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tang et al in view of Robertson et al (WO 97/29525).

A conical reflector 8 is shown by Robertson et al in a scanned and polarized antenna system in Fig. 2 to be well known in the antenna art. It would have been obvious to employ such a reflector in the system of Tang et al to prevent scattering. Regarding Claims 20,21,25 and 27, a communications unit including RX/TX, modulator/demodulator is an obvious use for the system disclosed in the primary reference device and notice of such use is hereby taken in order to provide modulation/information transmission and reception.

Response to Arguments

5. Applicant's arguments filed 3/3/2003 have been fully considered but they are not persuasive. Specifically, as noted above, there is a spatial offset beam shown by Tang et al emerging from the cells as 90, 92 in Fig. 6. Collectively, the steered beam is offset spatially from the central axis. Claims 9-12 have been allowed. Since the remaining claims are shown to be taught in the prior art, it is not seen that these claims patentably define over the prior art of record.

Conclusion

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6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael C. Wimer whose telephone number is (703)

305-3555. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Don K. Wong can be reached on (703) 308-4856.

Michael C. Wimer Primary Examiner

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